



STATE OF DELAWARE  
EXECUTIVE DEPARTMENT  
OFFICE OF MANAGEMENT AND BUDGET

May 11, 2011

TO: ALL STATE AGENCIES, SCHOOL DISTRICTS, MUNICIPALITIES, VOLUNTEER  
FIRE COMPANIES AND POLITICAL SUBDIVISIONS

FROM: MICHAEL BACU  
STATE CONTRACT PROCUREMENT OFFICER  
302-857-4522

SUBJECT: **AWARD NOTICE – ADDENDUM #5**  
**CONTRACT NO. GSS08170-LAB\_GAS, LAB & COMPRESSED GASES**  
**SHIPPING, DELIVERY & PICKUP TERMS**

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OF  
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## **KEY CONTRACT INFORMATION**

### **1. MANDATORY USE CONTRACT:**

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**REF: Title 29, Chapter 6911(d) Delaware Code.** Every state department and agency within the Executive Branch and Judicial Branch of the state government shall procure all material, equipment and nonprofessional services through the statewide contracts administered by Government Support Services, Office of Management and Budget. Delaware State University, Delaware Technical and Community College, the operations funded by Public School Districts, Delaware Transit Corporation, the Legislative Branch and the Board of Pension Trustees and their consultants are specifically exempted from the requirements of this subsection.

### **2. CONTRACT PERIOD:**

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Each vendor's contract shall be valid for a one (1) year period from September 1, 2008 through August 31, 2009. Each contract may be renewed for **three (3)** one (1) year periods through negotiation between the contractor and Government Support Services. Negotiation must be initiated no later than ninety (90) days prior to the termination of the current agreement.

This contract has been extended through September 30, 2010 under the same pricing, terms and conditions.

This contract has been extended through September 30, 2011 under the same pricing, terms and conditions.

**This contract has been extended through September 30, 2012 under the same pricing, terms and conditions.**

### **3. VENDORS:**

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VENDOR INFORMATION	
GTS-WELCO, INC	AIRGAS
Contract # GSS08170-LAB_GASV01	Contract # GSS08170-LAB_GASV02
2 Medori Blvd.	630 Naylor Mill Road
Wilmington, DE 19801	Salisbury, MD 21801
Phone 302.654.8755	Phone 800.247.2282
Fax 302.654.8770	Fax 410.742.1674
Attn: Patrick Christ	Attn: Timothy Wertz
E-Mail: <a href="mailto:patrick.christ@gtsgas.com">patrick.christ@gtsgas.com</a>	E-Mail: <a href="mailto:timothy.wertz@airgas.com">timothy.wertz@airgas.com</a>

### **4. SHIPPING TERMS:**

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F.O.B. destination; freight pre-paid via company vehicle.

**5. DELIVERY AND PICKUP:**

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See Appendix A spreadsheet

All shipping and associated costs for both the receipt and the return of cylinders will be paid by the vendor.

**6. PRICING:**

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Prices will remain firm for the term of the contract.

See separate Pricing Spreadsheet posted to the GSS website.

**Addendum #4 provides yearly cylinder lease rates for each vendor and has been added to the Pricing Spreadsheet.**

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**7. BILLING:**

**The successful vendor is required to "Bill as Shipped" to the respective ordering agency(s). Ordering agencies shall provide at a minimum the contract number, ship to and bill to address, contract name and phone number.**

**8. PAYMENT:**

The agencies or school districts involved will authorize and process for payment each invoice within thirty (30) days after the date of receipt. The contractor or vendor must accept full payment by procurement (credit) card and/or conventional check and/or other electronic means at the State's option, without imposing any additional fees, costs or conditions.

**9. PRODUCT SUBSTITUTION:**

All items delivered during the life of the contract shall be of the same type and manufacture as specified unless specific approval is given by Government Support Services to do otherwise. Substitutions may require the submission of written specifications and product evaluation prior to any approvals being granted.

**10. ORDERING PROCEDURE:**

Successful contractors are required to have either a local telephone number within the (302) area code, a toll free (800) number, or agree to accept collect calls. Each agency is responsible for placing their orders and may be accomplished by written purchase order, telephone, fax or computer on-line systems. The contractor or vendor must accept full payment by procurement (credit) card and/or conventional

check and/or other electronic means at the State's option, without imposing any additional fees, costs or conditions.

**11. HOLD HARMLESS:**

The contractor agrees that it shall indemnify and hold the State of Delaware and all its agencies harmless from and against any and all claims for injury, loss of life, or damage to or loss of use of property caused or alleged to be caused, by acts or omissions of the contractor, its employees, and invitees on or about the premises and which arise out of the contractor's performance, or failure to perform as specified in the Agreement.

**12. NON-PERFORMANCE:**

In the event the contractor does not fulfill its obligations under the terms and conditions of this contract, the ordering agency may purchase equivalent product on the open market. Any difference in cost between the contract prices herein and the price of open market product shall be the responsibility of the contractor. Under no circumstances shall monies be due the contractor in the event open market products can be obtained below contract cost. Any monies charged to the contractor may be deducted from an open invoice.

**13. FORCE MAJEURE:**

Neither the contractor nor the ordering agency shall be held liable for non-performance under the terms and conditions of this contract due, but not limited to, government restriction, strike, flood, fire, or unforeseen catastrophe beyond either party's control. Each party shall notify the other in writing of any situation that may prevent performance under the terms and conditions of this contract.

**14. AGENCY'S RESPONSIBILITIES:**

The Agency shall:

- a. Examine and review in detail all letters, reports, drawings and other documents presented by the Contractor to the Agency and render to the Contractor in writing, findings and decisions pertaining thereto within a reasonable time so as not to delay the services of Contractor.
- b. Give prompt written notice to the Contractor whenever the Agency observes or otherwise becomes aware of any development that affects the scope or timing of the Contractor's services.

**15. ANALYTICAL DATA SHEETS:**

Vendors bidding on gases requiring Environmental Protection Agency (EPA) protocol must provide sample Analytical Data Sheets with their bids. The gases must be traceable to Standard Reference Material (SRM's) from the National Institute of Standards and Technology (NIST). Failure to do so will result in the bid being considered non-responsive. Analysis Data sheets will also be provided for all EPA protocol gases at time of delivery.

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16. **MSD SHEETS:**

Material Safety Data Sheets (MSDS) must be supplied to the ordering agency at time of delivery, and a sample MSDS must accompany your bid.

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LAB AND COMPRESSED GASES  
TECHNICAL SPECIFICATIONS**

The gases bid must meet EPA Protocol (where specified) and be traceable to Standard Reference Material (SRM's) from the National Institute of Standards and Technology (NIST).

Cylinders provided by the successful vendor must have a compatible fitting to meet all valve outlets listed in the Technical Specifications or any newer requirements as required. Making the fitting with an adapter **is not** acceptable. The cost for meeting the compatibility requirement shall be borne by the vendor.

The State of Delaware will provide and maintain all on-site regulators with exception of the liquid nitrogen specification.

Treated aluminum cylinders have been specified for certain gases. Treated aluminum cylinders offer a significant weight reduction and allow for easier, safer handling by a single person. Cylinders will not be accepted if they do not meet this specification.

**SECTION I:**

**A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES**

ITEM 1. Hydrocarbon Free Air  
Total Hydrocarbons: <0.1ppm as Methane  
Valve Outlet: CGA 590  
Cylinder Size: A  
Content: Approx. 144 C.F.  
Pressure: Approx. 2000 PSIG  
Cylinder Type: Treated Aluminum

**TECHNICAL SPECIFICATIONS**

**A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES - Continued**

- ITEM 2. Ambient Monitoring  
Ultra Zero Air -  
THC<0.05 ppm  
CO<0.1 ppm  
NOX<0.02 ppm  
SO2<0.005 ppm  
H<sub>2</sub>O<5 ppm  
CO<sub>2</sub> 315 - 385 ppm  
O<sub>2</sub> CONTENT - 20 TO 21%  
Valve Outlet: CGA 590  
Cylinder Size: AL  
Cylinder Type: Treated Aluminum  
Pressure: Approx 2000 PSIG  
Contents: Approx 144 C.F.
- ITEM 3. Carbon Monoxide (CO)  
PPM Range: 5 - 10ppm  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Hydrocarbon - Free Air  
Valve Outlet: CGA 590  
Cylinder Size: CL  
Content: Approx 28 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 4. Carbon Monoxide (CO)  
PPM Range: 15 - 25ppm  
Analysis Accuracy: EPA Protocol  
Diluent Air: Hydrocarbon - Free Air  
Valve Outlet: CGA 590  
Cylinder Size: CL  
Content: 28 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 5. Carbon Monoxide (CO)  
PPM Range: 40 - 45ppm  
Analysis Accuracy: EPA Protocol  
Valve Outlet: CGA 590  
Diluent Air: Hydrocarbon - Free Air  
Cylinder Size: CL  
Content: 28 C.F.  
Pressure: 2000 PSIG

**TECHNICAL SPECIFICATIONS**

**A. AMBIENT MONITORING CALIBRATION AND AUDIT GASES - Continued**

ITEM 6. Nitric Oxide (NO)  
PPM Range: 45 - 55ppm  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Nitrogen  
Valve Outlet: CGA 660  
Cylinder Size: CL  
Content: Approx 28 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

ITEM 7. Sulfur Dioxide (SO<sub>2</sub>)  
PPM Range: 45 - 55ppm  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Air  
Valve Outlet: CGA 660  
Cylinder Size: CL  
Content: Approx 28 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

ITEM 8. Nitrogen Dioxide (NO<sub>2</sub>)  
PPM Range: 45-55 ppm  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Air  
Valve Outlet: CGA 660  
Cylinder Size: CL  
Content: 28 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

**B. CONTINUOUS EMISSION MONITOR AUDIT GASES**

ITEM 9. Propane and Toluene  
PPM Range - Propane: 10 ppm  
Toluene: 10 ppm  
Analysis Accuracy:  $\pm 1\%$   
Diluent Gas: HC Free Air  
Valve Outlet: CGA 350  
Cylinder Size: BL  
Content: 75 C.F.  
Pressure: 2000 PSIG

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Cylinder Type: Treated Aluminum



**TECHNICAL SPECIFICATIONS**

**B. CONTINUOUS EMISSION MONITOR AUDIT GASES - Continued**

- ITEM 10. Propane and Toluene  
PPM Range - Propane: 50 ppm  
Toluene: 50 ppm  
Analysis Accuracy:  $\pm 1\%$   
Diluent Gas: HC Free Air  
Valve Outlet: CGA 350  
Cylinder Size: BL  
Content: 75 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 11. Sulfur Dioxide (SO<sub>2</sub>)  
PPM Range: 100 ppm SO<sub>2</sub>  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Nitrogen  
Valve Outlet: CGA 660  
Cylinder Size: BL  
Content: 75 CF  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 12. Sulfur Dioxide (SO<sub>2</sub>)  
PPM Range: 500 ppm SO<sub>2</sub>  
Analysis Accuracy: EPA Protocol 1  
Diluent Gas: Nitrogen  
Valve Outlet: CGA 660  
Cylinder Size: BL  
Content: 75 CF  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 13. Nitric Oxide (NO)  
PPM Range: 100 - 500 ppm as specified at time of order  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Nitrogen  
Valve Outlet: CGA 660  
Cylinder Size: BL  
Content: 75 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

**TECHNICAL SPECIFICATIONS**

**B. CONTINUOUS EMISSION MONITOR AUDIT GASES - Continued**

ITEM 14. Nitrogen Oxide (NO)  
PPM Range: 500 ppm NO  
Analysis Accuracy: EPA Protocol  
Diluent Gas: Nitrogen  
Valve Outlet: CGA 660  
Cylinder Size: BL  
Content: 75 CF  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

**C. VEHICLE EMISSION ANALYZER AUDIT GASES**

ITEM 15. Carbon Monoxide and Propane (CO and C<sub>3</sub>H<sub>8</sub>)  
PPM Range Propane: 1600 ppm  
PPM Range Carbon Monoxide: 4%  
Diluent Gas: Nitrogen  
Analysis Accuracy:  $\pm 1\%$   
Valve Outlet: CGA 350  
Cylinder Size: BL  
Content: 75 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

ITEM 16. Carbon Monoxide and Propane (CO and C<sub>3</sub>H<sub>8</sub>)  
PPM Range Propane: 440 ppm  
PPM Range Carbon Monoxide: 1.6%  
Analysis Accuracy:  $\pm 1\%$   
Valve Outlet: CGA 350  
Cylinder Size: BL  
Content: 75 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

ITEM 17. Carbon Monoxide, Propane and Carbon Dioxide  
(CO, C<sub>3</sub>H<sub>8</sub> & CO<sub>2</sub>)  
PPM Range Propane: 600 ppm  
PPM Range Carbon Monoxide: 1.6%  
PPM Range Carbon Dioxide: 11%  
Analysis Accuracy:  $\pm 1\%$   
Valve Outlet: CGA 350  
Cylinder Size: AL  
Content: 144 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

**TECHNICAL SPECIFICATIONS**

**C. VEHICLE EMISSION ANALYZER AUDIT GASES - Continued**

- ITEM 18. Carbon Monoxide, Propane and Carbon Dioxide (CO, C<sub>3</sub>H<sub>8</sub>, CO<sub>2</sub>)  
PPM Range Propane: 300 ppm  
PPM Range Carbon Monoxide: 1.0%  
PPM Range Carbon Dioxide: 6.0%  
Diluent Gas: Nitrogen  
Analysis Accuracy:  $\pm 1\%$   
Valve Outlet: CGA 350  
Cylinder Size: AL  
Content: 144 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum
- ITEM 19. Carbon Monoxide, Propane and Carbon Dioxide (CO, C<sub>3</sub>H<sub>8</sub>, CO<sub>2</sub>)  
PPM Range Propane: 1200 ppm  
PPM Range Carbon Monoxide: 4.0%  
PPM Range Carbon Dioxide: 12.0%  
Diluent Gas: Nitrogen  
Analysis Accuracy:  $\pm 1\%$   
Valve Outlet: CGA 350  
Cylinder Size: AL  
Content: 144 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Treated Aluminum

**SECTION II:**

**A. LABORATORY GASES**

- ITEM 20. Helium (HE)  
Concentration: 99.999% Ultra-High Purity  
O<sub>2</sub><2 ppm  
THC<0.5 ppm  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 280 C.F.  
Pressure: 2600 PSIG  
Cylinder Type: Steel

**TECHNICAL SPECIFICATIONS**

**SECTION II:**

**A. LABORATORY GAS - Continued**

- ITEM 21. Hydrogen (H<sub>2</sub>)  
Concentration: Ultra Hi Purity 99.999% Zero Gas Certified  
Analysis for THC<0.5 ppm  
Valve Outlet: CGA 350  
Cylinder Size: B  
Content: 77 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Steel
- ITEM 22. Hydrogen (H<sub>2</sub>)  
Concentration: Ultra High Purity 99.999% Zero Gas  
Certified Analysis for THC<0.5 ppm  
Valve Outlet: CGA 350  
Cylinder Size: A  
Content: 196 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Steel
- ITEM 23. Nitrogen (N<sub>2</sub>)  
99.99% High Purity  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 226 C.F.  
Pressure: 2000 PSIG  
Cylinder Type: Steel
- ITEM 24. Acetylene  
Commercial Grade: 98%  
Valve Outlet: CGA 300  
Cylinder Size: A  
Content: Approx. 350 C.F.  
Pressure: @ 70°F 237 PSIG
- ITEM 25. Acetylene  
Purified Grade: 99.6%  
Valve Outlet: CGA 510  
Cylinder Size: A  
Content: Approx. 330 C.F.  
Pressure: 250 PSIG

**TECHNICAL SPECIFICATIONS**

**SECTION II:**

**A. LABORATORY GAS - Continued**

- ITEM 26. Air  
Grade: Zero Grade  
Total Hydrocarbons: <1.0 molar ppm  
Valve Outlet: CGA 590  
Cylinder Size: A  
Content: 330 C.F.  
Pressure: 2640 PSIG
- ITEM 27. Argon Gas  
Grade: Zero Grade  
Total Hydrocarbons: <0.5 molar ppm  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 330 C.F.  
Pressure: 2200-2460 PSIG
- ITEM 28. Argon Liquid (Dewar)  
Grade: 99.998%  
Impurities: <1 ppm water, <0.0002 ppm oxygen,  
<0.5 ppm methane, <0.5 ppm carbon  
dioxide, <10 ppm nitrogen  
Valve Outlet: GGA 580  
Cylinder Size: Dewar - Approx 20" x 60"  
Content: Approx 145 liters/4,308 C.F.  
Pressure: Bleeder valve set approx 200-230 PSIG
- ITEM 29. Argon/Methane - P5  
Grade: 95% Argon/5% Methane  
Valve Outlet: CGA 350  
Cylinder Size: B  
Content: 225 C.F.  
Pressure: 2000-2200 PSIG
- ITEM 30. Argon/Methane - Ultra P5  
Grade: 95% Argon UHP/5% Methane UHP  
Valve Outlet: CGA 350  
Cylinder Size: B  
Content: 233 C.F.  
Pressure: 2000 PSIG

**TECHNICAL SPECIFICATIONS**

**SECTION II:**

**A. LABORATORY GAS - Continued**

- ITEM 31. Argon/Methane - P10  
Grade: 90% Argon/10% Methane  
Valve Outlet: CGA 350  
Cylinder Size: B  
Content: 225 C.F.  
Pressure: 2000-2200 PSIG
- ITEM 32. Helium  
Grade: Ultra pure 99.9995%  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 280 C.F.  
Pressure: 2200-2600 PSIG
- ITEM 33. Hydrogen  
Grade: Zero Grade 99.997%  
Valve Outlet: CGA 350  
Cylinder Size: A  
Content: 260 C.F.  
Pressure: 2200-2400 PSIG
- ITEM 34. Nitrogen Gas  
Grade: Zero Grade 99.9985%  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 255 C.F.  
Pressure: 2640 PSIG
- ITEM 35. Nitrogen Liquid (Dewar/Liquid Use)  
Grade: Low pressure 99.999%  
Valve Outlet: 1/2 inch male flare fitting  
Cylinder Size: Dewar - Approx 20" X 60"  
Content: Approx 148-160 liters/3,640 C.F.  
Pressure: Bleeder valve set approx 200-230 PSIG
- ITEM 36. Nitrous Oxide  
Grade: Technical Grade 99.0%  
Valve Outlet: CGA 326  
Cylinder Size: B  
Content: Approx 60 lbs.  
Pressure: 745 PSIG

**TECHNICAL SPECIFICATIONS**

**SECTION II:**

**A. LABORATORY GAS - Continued**

- ITEM 37. Helium  
Grade: High Purity 99.995%  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 280 C.F.  
Pressure: 2600 PSIG
- ITEM 38. Carbon Dioxide  
Grade: Bone Dry 2-8, 99.8% purity  
Valve Outlet: CGA 320  
Cylinder Size: B  
Content: 60 lbs.  
Pressure: 838 PSIG
- ITEM 39. Nitrogen, Pre-purified  
Purity: 99.9%  
Valve Outlet: CGA 580  
Content: 300 C.F.  
Pressure: 2640 PSIG
- ITEM 40. Air, Breathing Quality  
Valve Outlet: CGA 346  
Content: 310 C.F.  
Pressure: 2640 PSIG
- ITEM 41. Nitrous Oxide  
Grade: Technical Grade 99.0%  
Valve Outlet: CGA 326  
Cylinder Size: B  
Content: Approx 60 lbs.  
Pressure: 745 PSIG
- ITEM 42. Helium  
Grade: High Purity 99.995%  
Valve Outlet: CGA 580  
Cylinder Size: A  
Content: 280 C.F.  
Pressure: 2600 PSIG

**TECHNICAL SPECIFICATIONS**

**SECTION II:**

**A. LABORATORY GAS - Continued**

ITEM 43. Carbon Dioxide  
Grade: Bone Dry 2-8, 99.8% purity  
Valve Outlet: CGA 320  
Cylinder Size: B  
Content: 60 lbs.  
Pressure: 838 PSIG

ITEM 44. Nitrogen, Pre-purified  
Purity: 99.9%  
Valve Outlet: CGA 580  
Content: 300 C.F.  
Pressure: 2640 PSIG